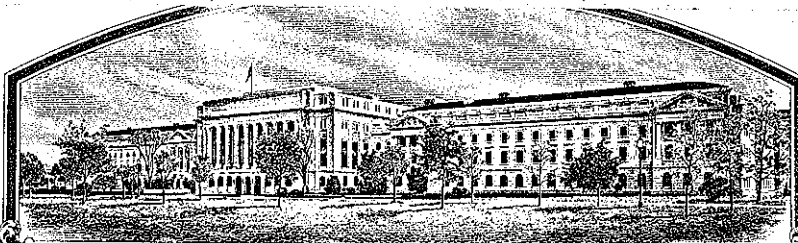


No.



7800070

# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

**Barenbrug Holland B. V.**

Whereas, THERE HAS BEEN PRESENTED TO THE  
**Secretary of Agriculture**

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS DETERMINED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

PERENNIAL RYEGRASS

'Barry'

In Testimony Whereof, I have hereunto set  
my hand and caused the seal of the Plant  
Variety Protection Office to be affixed  
at the City of Washington  
this 14th day of May - in  
the year of our Lord one thousand nine  
hundred and eighty-one.

Attest:

*Lyman K. Lee*  
Commissioner  
Plant Variety Protection Office  
Grain Division  
Agricultural Marketing Service

*John R. Block*  
Secretary of Agriculture

UNITED STATES DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION

FORM APPROVED  
OMB NO. 40-R3822

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

1a. TEMPORARY DESIGNATION OF VARIETY BAR Lp 76-1		1b. VARIETY NAME BARRY		FOR OFFICIAL USE ONLY PV NUMBER 7800070	
2. KIND NAME Perennial ryegrass		3. GENUS AND SPECIES NAME Lolium perenne		FILING DATE 5-16-78	TIME 10:00 A.M.
4. FAMILY NAME (BOTANICAL) Gramineae		5. DATE OF DETERMINATION 1976		FEE RECEIVED \$ 500.00 \$ 250.00	DATE 5-16-78 4-1-81
6. NAME OF APPLICANT(S) Barenbrug Holland B.V.		7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Box 4, Arnhem, Netherlands		8. TELEPHONE AREA CODE AND NUMBER (609) 924-5664 EAS 11/6/79	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Corporation		10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION Netherlands		11. DATE OF INCORPORATION 1904 EAS 11/6/79	
12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS: MR. STAN ROLLIN, SEED CONSULTANT, 6802 OREM DRIVE, LAUREL, MD., 20810 EAS 12/3/79 Francis Mayer Seed Company, P.O. Box 72, Princeton, N.J. 08540, U.S.A.					
13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:					
<input checked="" type="checkbox"/> 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)					
<input checked="" type="checkbox"/> 13B. Exhibit B, Novelty Statement.					
<input checked="" type="checkbox"/> 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)					
<input type="checkbox"/> 13D. Exhibit D, Additional Description of the Variety.					
14a. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a). (If "Yes," answer 14B and 14C below.) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO					
14b. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		14c. IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED? <input checked="" type="checkbox"/> FOUNDATION <input checked="" type="checkbox"/> REGISTERED <input checked="" type="checkbox"/> CERTIFIED			
15a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO (If "Yes," give name of countries and dates.) in 1976 in Holland and Germany in 1977 in Belgium, France and Great Britain					
15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (If "Yes," give name of countries and dates.)					

16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL JOURNAL? ☒ YES ☐ NO

17. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

Francis Mayer Seed Company, Inc.  
Representative of Barenbrug Holland B.V.

(DATE)

(SIGNATURE OF APPLICANT)

(DATE)

(SIGNATURE OF APPLICANT)

INSTRUCTIONS

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

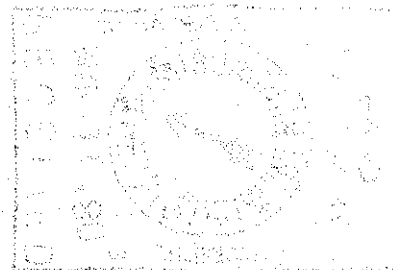
- 5 Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- 13a Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- 13b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 13c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- 13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.
- 14a If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- 15a See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

APPLICATION NO. 7800070, Perennial Ryegrass, 'Barry'

EXHIBIT A - Origin and breeding method - Barry is based on 8 homozygous clones which are originated from superior plants in turf quality. Selection started in 1970 with genotypes of Manhattan and European collected ecotypes. After pollination in 1971 a further selection was made on turf quality and seed yield. Seeds of the eight families was used for application for breeders right in 1976 in the Netherlands.

IVRO-Wageningen declared on 20 December 1978 that Barry is uniform and stable.

EXHIBIT B- Novelty - Barry is most similar to Majestic (see enclosure) but is distinguished by shorter length of the spike, a slower rate of growth in the spring, and a shorter flag leaf. The above was the conclusion of the RIVRO Board of Breeders Rights in Wageningen on December 20, 1978.



Addendum to Exhibit A.

After pollination in 1971 clones were harvested and the seed sown in small turf plots. In 1973 the clones with the best offspring regarding to turf quality, were planted in a clonal seed block and harvested in 1974. The seed of the best yielding clones was mixed and sown for the harvest of breeders seed in 1975.

Type and frequency of variants.

This is difficult to answer as we have no exact definition of the term variant. If variant is defined as "plants clearly not belonging to a cross fertilized population in a Hardy - Weinberg equilibrium", an off-type, so to say than we can state that there is one variant occurring in a frequency of about 0,1 %, which is somewhat earlier (+ 5 days) more broadleaved (5,5 mm) and lighter in colour as the average Barry plant.

The homogeneity of the variety however, is sufficient to have it registered in the Netherlands, France, Western Germany and New Zealand.

Exhibit B.

Novelty

Barry is most similar to Majestic (see enclosure B1).

Distinguishing characteristics are:

ear length, flag leaf length and spring development.

1. Ear length in cm. Average of 60 plants.

	<u>BARRY</u>	<u>MAJESTIC</u>	<u>LSD at 1%</u>
1978	15.7	18.2	2,0
1979	15.1	18.4	1.7
1980	13.1	17.2	2.6

2. Length of flag leaf.

	<u>BARRY</u>	<u>MAJESTIC</u>	<u>LSD at 1%</u>
1978	11.7	13.9	2.4
1979	10.8	13.4	1.6
1980	8.6	10.0	1.1

3. Development in spring.

This characteristic is difficult to define. It is a visual observation at spaced plants, about 4 weeks after the start of the growing season. These observations are done if differences between varieties are most striking.

Scale 1-9, 9 = most developed

	<u>BARRY</u>	<u>MAJESTIC</u>
1978	6	8
1979	6	7
1980	5.7	6.5

Data obtained from R.I.V.R.O., Wageningen.

Perennial ryegrass. Classification of the diploid, relatively slow growing varieties.

November 1978

GROWTH RATE		VERY SLOW				SLOW			RATHER SLOW		
		VERY SHORT		SHORT		VERY SHORT		SHORT		VERY SHORT	
DATE OF EAR EMERGENCE	CULM LENGTH	VERY SHORT		SHORT		VERY SHORT		SHORT		VERY SHORT	
	LEAF COLOUR EAR LENGTH	GREEN	DARK GREEN	VERY DARK GREEN	DARK GREEN	GREEN	DARK GREEN	DARK GREEN	GREEN	AVERAGE GREEN	
very early			Pennfine								
early			Derby		Royal						
rather early			Yorktown Barloft					Monarch			Barstella Bianca *
average				Caravelle			Manhattan	Jennifer			
rather late			Barry						Ensporta		
late		Loretta	Majestic				Arno			Score	Enverto
very late						Exponent					
			Hunter				Bellatrix			Sprinter	Donata

FORM GR-470-36  
(9-76)U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
GRAIN DIVISION  
HYATTSTVILLE, MARYLAND 20782  
**OBJECTIVE DESCRIPTION OF CULTIVARS**  
**RYEGRASS**  
(*Lolium spp.*)

NAME OF APPLICANT(S) Barenbrug Holland B.V.	VARIETY NAME OR TEMPORARY DESIGNATION BARRY
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code) Postbox 4, Arnhem - Netherlands	FOR OFFICIAL USE ONLY PVPO NUMBER 7800070

Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in first box (e.g. 089 or 09) when number is either 99 or less or 9 or less. Descriptions of characters should represent those that are typical for the variety. Ranges may be given also. Measured data should be for SPACED PLANTS. Give additional description for all characteristics that cannot be adequately described in the form below. Append all pertinent comparative trial and evaluation data.

## 1. SPECIES:

2 1 = L. MULTIFLORUM (annual or Italian: includes Westerwoldicum) 2 = L. PERENNE (perennial) 3 = L. RIGIDUM (includes Wimmera)  
4 = HYBRID (of species) 5 = OTHER (Specify)

## 2. PLOIDY:

1 1 = DIPLOID 2 = TETRAPLOID 3 = OTHER (Specify)

## 3. DURATION:

3 1 = ANNUAL OR BIENNIAL 2 = SHORT LIVED PERENNIAL (3-4 years) 3 = PERENNIAL (more than 4 years)

## STANDARD CULTIVARS

1 = GULF 2 = WIMMERA 62 3 = LINN 4 = PELO  
5 = NORLEA 6 = ABERYSTWYTH S-23 7 = MANHATTAN 8 = PENNFINE

## 4. MATURITY (50% HEADED) Use standards from above for comparison:

5 1 = VERY EARLY 3 = EARLY 4 = 7 DAYS EARLIER THAN STANDARD CULTIVAR  
5 = MEDIUM 7 = LATE 8 = 9 DAYS LATER THAN STANDARD CULTIVAR  
9 = VERY LATE

## 5. MATURE PLANT HEIGHT (Use standard cultivars from above):

4 CM. HIGH 4 CM. SHORTER THAN STANDARD CULTIVAR  
7 CM. TALLER THAN STANDARD CULTIVAR

## 6. PERCENT WINTER DAMAGE (estimated as percent of the area appearing dead). Use standard cultivars from above for comparison:

0 PERCENT DAMAGE OF APPLICATION CULTIVAR  
0 PERCENT DAMAGE OF STANDARD CULTIVAR

## 7. TURF DENSITY Use standard cultivars from above:

275 TILLERS PER 100 SQ. CM.  
18 LESS TILLERS PER 100 SQ. CM. THAN STANDARD CULTIVAR  
18 MORE TILLERS PER 100 SQ. CM. THAN STANDARD CULTIVAR

## 8. FLAG LEAF (at full growth) Use standard cultivars from above:

14 CM. LENGTH (from ligule to tip) 42 MM. WIDTH (at widest point)  
2 CM. SHORTER THAN STANDARD CULTIVAR 7 FLAG LEAF AT BOOT STAGE: 1 = DEFLEXED  
3 CM. LONGER THAN STANDARD CULTIVAR 5 = HORIZONTAL  
03 MM. NARROWER THAN STANDARD CULTIVAR 7 = SEMI-ERECT  
9 = ERECT

7800070

FORM GR-470-36 (2-76)

PAGE 2 OF 3

## STANDARD CULTIVARS

1 = GULF  
5 = NORLEA2 = WIMMERA 62  
6 = ABERYSTWYTH S-233 = LINN  
7 = MANHATTAN4 = PELO  
8 = PENNFINE

## 9. LEAVES:

3

1 = LEAVES ROLLED IN YOUNG SHOOTS  
VERNATION: 2 = LEAVES SEMI-ROLLED (folded with rolled edges)  
3 = LEAVES FOLDED IN YOUNG SHOOTS

1 0 0

% PLANTS WITH ANTHOCYANIN IN LOWER LEAF SHEATH

3

FOLIAGE COLOR:

1 = YELLOW GREEN  
2 = MEDIUM GREEN  
3 = BLUE GREEN

## 10. SPIKE:

1 0 0

MM. SPIKE LENGTH (tip to internode below lowest floret)

1 0 0

MM. SHORTER THAN

1 0 0

MM. LONGER THAN

USE STANDARD CULTIVARS FROM ABOVE

1 0 0

MG. PER TEN SPIKES (trimmed to internode below lowest floret)

1 0 0

MG. LIGHTER PER TEN SPIKES THAN

1 0 0

MG. HEAVIER PER TEN SPIKES THAN

USE STANDARD CULTIVARS FROM ABOVE

1 0 0

FLORETS PER SPIKELET

## PERCENTAGE OF PLANTS WITH:

RACHIS: 1 0 0

% SMOOTH

1 0 0

% ROUGH

SPIKE COLOR: 1 0 0

% GREEN

1 0 0

% PURPLE

LEMMA: 1 0 0

% AWNED

1 0 0

MM. AWN LENGTH

1 0 0

MM. GLUME LENGTH

1 0 0

1 = SPIKELET LENGTH NEARLY EQUAL TO OUTER GLUMES  
2 = SPIKELET LENGTH MUCH LONGER THAN OUTER GLUMES

## 11. COLEOPTILE:

1 0 0

% PLANTS WITH ANTHOCYANIN IN COLEOPTILE

## 12. ANTHOR COLOR:

1 0 0

% PLANTS WITH WHITE ANTHERS

1 0 0

% PLANTS WITH YELLOW ANTHERS

1 0 0

% PLANTS WITH PURPLE ANTHERS

## 13. ROOT AND PLANT CHARACTERS:

1 0 0

% PLANTS WITH PROSTRATE GROWTH HABIT

1 0 0

% PLANTS WITH FLUORESCENT ROOTS

1 0 0

% PLANTS WITH UPRIGHT GROWTH HABIT

## 14. SEED:

1 7 7 0

MG. PER 1,000 SEED

1 4 9

MM. TOTAL LENGTH OF 10 SEEDS

1 1 2

MM. TOTAL WIDTH OF TEN SEEDS



7800070

15. DISEASE ( 0 = NOT TESTED, 2 = HIGHLY SUSCEPTIBLE, 4 = MODERATELY SUSCEPTIBLE, 6 = MODERATELY RESISTANT, 8 = HIGHLY RESISTANT):

<input type="checkbox"/> 8 CROWN RUST ( <u>Puccinia coronata</u> )	<input type="checkbox"/> 0 DOLLAR SPOT ( <u>Sclerotinia</u> )	<input type="checkbox"/> 0 BROWN PATCH ( <u>Rhizoctonia</u> )
<input type="checkbox"/> 0 LEAF SPOT ( <u>Helminthosporium</u> )	<input type="checkbox"/> 8 MILDEW	<input type="checkbox"/> 8 OTHER ( <u>Specify</u> )
<input type="checkbox"/> 0 SNOW MOLD ( <u>Typhula</u> )	<input type="checkbox"/> 6 RED THREAD ( <u>Corticium</u> )	<u>Fus. culmorum</u>

16. INSECT ( 0 = NOT TESTED, 2 = HIGHLY SUSCEPTIBLE, 4 = MODERATELY SUSCEPTIBLE, 6 = MODERATELY RESISTANT, 8 = HIGHLY RESISTANT):

☐ (Specify) \_\_\_\_\_

17. GIVE RESEMBLANCE VALUE IN LEFT COLUMN AND VARIETY CODE NUMBER IN RIGHT COLUMN FOR VARIETY WITH WHICH COMPARISON IS MADE ( 1 = LESS THAN, 2 = SAME AS, 3 = MORE ERECT, MORE RESISTANT, DENSER, MORE PERSISTENT, DARKER OR GREATER HEIGHT.):

RESEMBLANCE	CHARACTER	SIMILAR VARIETY
<input type="checkbox"/> 2	PLANT HABIT (erectness)	<input type="checkbox"/> 7 1 = GULF
<input type="checkbox"/> 2	TILLERING	<input type="checkbox"/> 7 2 = WIMMERA 62
<input type="checkbox"/> 2	WINTER HARDINESS	<input type="checkbox"/> 7 3 = LINN
<input type="checkbox"/> 2	HIGH TEMP. STRESS RESISTANCE	<input type="checkbox"/> 7 4 = PELO
<input type="checkbox"/> 3	TURF PERSISTENCE	<input type="checkbox"/> 7 5 = NORLEA
<input type="checkbox"/> 3	PLANT COLOR	<input type="checkbox"/> 7 6 = ABERYSTWYTH S-23
<input type="checkbox"/> 2	VERTICAL SEEDLING GROWTH RATE	<input type="checkbox"/> 7 7 = MANHATTAN
<input type="checkbox"/> 3	CROWN DENSITY	<input type="checkbox"/> 7 8 = PENNFINE
<input type="checkbox"/> 3	MOWER SHREDDING RESISTANCE	<input type="checkbox"/> 7

18. GIVE AREA OF ADAPTATION AND INTENDED USE: \_\_\_\_\_

19. GIVE AREA TEST RESULTS PRESENTED FROM: Wolfeheze, the Netherlands

COMMENTS:

SUBJECT BARRY, PERENNIAL RYEGRASS NO. 7800070.

Exhibit C.

The information about heading dates can change a little bit during the first years of observation of a new variety.

The official R.I.V.R.O. data, published in april 1980, were as follows:

Pennfine 13/5

Manhattan 30/5

Barry 1/6

The flagleaf width is ~~indeed~~ 4.2 <sup>mm.</sup> ~~cm.~~ *err 3/12/81  
as per letter dt'd 3/10/81.*

Additional information.

Enclosed you'll find a revised classification chart of the slow growing, turf type perennial ryegrass varieties registered in the Netherlands.

As this chart is important for the distinctness or novelty of the variety it should be labeled as an addendum Exhibit B.

Also enclosed are two tables about turf performance of Barry. These can be labeled as Exhibit D.

Hoge cijfers betekenen gunstige waardering van de betrokken eigenschap, een hoog cijfer voor traagheid van groei betekent een langzame groei.

	Gemiddelde doorschietdatum	Resistentie tegen betreding	Zoedichtheid	Traagheid van groei	Wintervastheid	Resistentie tegen kroonroest	Fijnheid van blad
	1	2	3	4	5	6	7
A - Sprinter	14-6	9	7 <sup>s</sup>	7 <sup>s</sup>	8	6	7
A - Majestic	3-6	9	8	8 <sup>s</sup>	7 <sup>s</sup>	4 <sup>s</sup>	7 <sup>s</sup>
A - Manhattan	30-5	9	7	8	8	4 <sup>s</sup>	7
B - Ensporta	3-6	7 <sup>s</sup>	8	7 <sup>s</sup>	5	5 <sup>s</sup>	8
N - Arno	2-6	9	8	8	8	5	7 <sup>s</sup>
N - Barry	1-6	8 <sup>s</sup>	8	8 <sup>s</sup>	7	5 <sup>s</sup>	8
N - Bellatrix	15-6	8 <sup>s</sup>	8	7 <sup>s</sup>	7 <sup>s</sup>	6	7 <sup>s</sup>

130

### TRANSLATION

Summary of test results of perennial ryegrass varieties for sportfields (from the "Rassenlijst voor Landbouwgewassen 1980").  
("Recommended list for Agricultural Crops 1980")

A = more than 3 years on the list and for general use

B = more than 3 years on the list with a restricted use (for special areas only)

N = new varieties

1 = bad

9 = best

### COLUMN

1. average date of ear emergence
2. wear resistance
3. soddensity
4. slow growth rate
5. winterhardiness
6. lawn rust resistance
7. fineness of leaf

TABLE 21. WINTER PERFORMANCE OF 34 PERENNIAL RYEGRASS  
CULTIVARS OVERSEEDED<sup>1</sup> ON DORMANT BERMUDAGRASS

1978-79  
College Station, Texas

Perennial Ryegrass Cultivar	Winter Performance Ratings <sup>2</sup>				Average for Winter <sup>2</sup> (9 ratings) <sup>3</sup>
	Dec.	Jan.	Feb.	Mar.	
Barry	6.2	5.8	5.8	7.3	5.8 <sup>3</sup>
Hunter	5.5	5.3	5.7	5.8	5.3
Loretta	5.4	5.3	5.0	5.5	5.3
Yorktown II	5.2	4.8	3.8	4.8	4.8
Veni	4.7	4.8	4.6	2.3	4.8
Acclaim	4.6	4.5	3.8	5.0	4.5
Yorktown	4.6	4.4	4.2	5.7	4.4
Caravelle	4.4	4.3	3.8	5.0	4.3
Regal	4.7	4.3	3.8	4.3	4.3
Birdie	4.7	4.3	4.0	4.7	4.3
Omega	4.7	4.2	4.2	4.0	4.2
Citation	4.2	4.1	4.3	5.5	4.1
Elka	5.3	4.1	3.5	4.3	4.1
Goalie	4.7	4.0	3.8	5.5	4.0
Manhattan	4.6	4.0	3.8	4.0	4.0
Arno	4.4	3.8	3.5	4.5	3.8
Blazer	4.8	3.8	3.3	3.9	3.8
Venloma	3.1	3.7	1.3	2.0	3.7
MP-1	3.9	3.5	4.0	4.8	3.5
Pennfine	4.0	3.4	3.0	3.0	3.4
Majestic (LP-20)	3.8	3.3	3.7	4.0	3.3
Diplomat	4.6	3.1	2.3	3.2	3.1
Fiesta	3.7	3.0	3.0	3.7	3.0
NK 200	4.3	2.8	2.7	2.3	2.8
Linn	3.4	2.7	1.0	2.2	2.7
Jennifer	3.9	2.6	2.3	2.5	2.6
Derby	4.3	3.0	2.5	4.0	2.6
Selection 773	2.7	2.5	1.0	1.8	2.5
Rudo	4.6	2.3	2.0	1.8	2.3
Game	2.7	2.0	1.0	1.8	2.0
NK 100	3.1	1.8	1.3	1.8	1.8
Pleno	3.0	1.8	1.2	1.7	1.8
Oregreen	3.1	1.7	1.5	2.0	1.7
Pelo	3.9	1.7	1.2	1.8	1.7

<sup>1</sup>All perennial ryegrass cultivars were seeded at 40 lbs/1000 sq. ft.

<sup>2</sup>Visual rating of 9=best and 0=poorest; December 1, 1978 to March 31, 1979.

<sup>3</sup>Values joined by the same line are not significantly different at the 5% level for Duncan's Multiple Range Test.